WE CLAIM

- 1. A process for the preparation of water-dispersible tablets of cephalexin, wherein the tablets disintegrate within 3 minutes in water at 20°C± 5°C to form a uniform suspension, comprising granulating cephalexin, disintegrant and colloidal silicon dioxide with binder solution to form granules; drying the resulting granules; mixing the dried granules with disintegrant(s), fillers, lubricating agents and optionally other excipients; and compressing to form tablets.
- 2. The process according to claim 1 wherein the granules comprise a suspending agent and/or coloring agent.
- 3. The process according to claim 1 wherein other optional excipients comprise one or more of antiadherants, sweeteners, coloring agents and flavoring agents.
- 4. The process according to claim 1 where cephal exin is present as monohydrate.
- 5. The process according to claim 1 wherein cephalexin has a particle size d₉₀ less than 250μm.
- 6. The process according to claim 1 wherein granulation is the wet granulation method.
- 7. The process according to claim 1 wherein the disintegrant(s) are selected from sodium starch glycolate, carboxy methylcellulose, croscarmellose sodium and crospovidone and combinations thereof.
- 8. The process according to claim 7 wherein the disintegrant is crospovidone.
- 9. The process according to claim 1 wherein the disintegrant is present in an amount from about 0.5% to about 10% by weight of the total tablet weight.
- 10. The process according to claim 1 wherein the binder is selected from hydroxypropyl cellulose, hydroxypropyl methylcellulose, polyvinylpyrrolidone and combinations thereof.
- 11. The process according to claim 10 wherein the binder is polyvinyl pyrrolidone.

- 12. The process according to claim 1 wherein the binder is present in an amount from about 0.25% to about 4% by weight of the total tablet weight.
- 13. The process according to claim 1 wherein the filler is selected from lactose, microcrystalline cellulose, mannitol and combinations thereof.
- 14. The process according to claim 13 wherein the filler is mannitol.
- 15. The process according to claim 13 wherein the filler is microcrystalline cellulose.
- 16. The process according to claim 1 wherein the lubricants of the present invention may be selected from magnesium stearate, stearic acid, sodium stearyl fumarate and combinations thereof.
- 17. The process according to claim 16 wherein the lubricant is magnesium stearate.
- 18. The process according to claim 1 wherein the lubricant is in the amount of about 0.25% to about 5% weight of the total tablet weight.
- 19. The process according to claim 2 wherein the suspending agent is selected from microcrystalline cellulose, sodium carboxy methylcellulose, colloidal silicon dioxide, mannitol, povidone, sodium starch glycolate or a combination thereof.
- 20. The process according to claim 19 wherein the suspending agent is colloidal silicon dioxide.
- 21. The process according to claim 2 wherein the suspending agent is present in an amount of about 0.25% to about 6.0% by weight of the total tablet weight.
- 22. The process according to claim 3 wherein the coloring agent is D&C Yellow Aluminum Lake.
- 23. The process according to claim 3 wherein the antiadherant is colloidal silicon dioxide.
- 24. The process according to claim 3 wherein the sweetening agent is selected from sugars, saccharin or its salts, aspartame or combinations thereof.
- 25. The process according to claim 24 wherein sweetening agent is aspartame.

- 26. The process according to claim 3 wherein sweetening agent is present in an amount of about 0.01% to about 2.0% by weight of total weight of tablet.
- 27. The process according to claim 3 wherein the flavoring agent is Flavor Peppermint.
- 28. A water dispersible dosage form of cephalexin comprising an intragranular portion and an extragranular portion:

the intragranular portion comprising a pharmace utically acceptable amount of cephalexin or its salts, a disintegrant(s), and a suspending agent(s); and the extragranular portion comprising one or more pharmaceutically acceptable excipients.

- 29. The water dispersible dosage form of claim 28 wherein cephalexin is present as a monohydrate.
- 30. The water dispersible dosage form of claim 28 wherein cephalexin has a particle size of d₉₀ less than 250μm.
- 31. The water dispersible dosage form of claim 28 wherein the pharmaceutically acceptable excipients comprise one or more of fillers, binders, lubricants, antiadherants, sweeteners, coloring agents, and flavoring agents.
- 32. The water dispersible dosage form of claim 28 wherein the disintegrant(s) are selected sodium starch glycolate, carboxy methylcellulose, croscarmellose sodium and crospovidone and combinations thereof.
- 33. The water dispersible dosage form of claim 32 wherein the disintegrant is crospovidone.
- 34. The water dispersible dosage form of claim 28 wherein the disintegrant is present in an amount from about 0.5% to about 10% by weight of the total tablet weight.
- 35. The water dispersible dosage form of claim 31 wherein the binder comprises one or more of hydroxpropyl cellulose, hydroxypropyl methylcellulose, polyvinylpyrrolidone and combinations thereof.
- 36. The water dispersible dosage form of claim 35 wherein the binder is polyvinyl pyrrolidone.

- 37. The water dispersible dosage form of claim 31 wherein the bindler is present in an amount from about 0.25% to about 4% by weight of total tablet weight.
- 38. The water dispersible dosage form of claim 31 wherein the filler comprises one or more of lactose, microcrystalline cellulose, mannitol, and combinations thereof.
- 39. The water dispersible dosage form of claim 38 wherein the filler is mannitol.
- 40. The water dispersible dosage form of claim 38 wherein the filler is microcrystalline cellulose.
- 41. The water dispersible dosage form of claim 31 wherein the lubricants of the present invention may be selected from magnesium stearate, stearic acid, sodium stearyl fumarate and combinations thereof.
- 42. The water dispersible dosage form of claim 41 wherein the lubricant is magnesium stearate.
- 43. The water dispersible dosage form of claim 31 wherein the lubricant is in the amount of about 0.25% to about 5% weight of the total tablet weight.
- 44. The water dispersible dosage form of claim 28 wherein the suspending agent is selected from microcrystalline cellulose, sodium carboxy methylcellulose, colloidal silicon dioxide, mannitol, povidone, sodium starch glycolate or a combination thereof.
- 45. The water dispersible dosage form of claim 44 wherein the suspending agent is colloidal silicon dioxide.
- 46. The water dispersible dosage form of claim 28 wherein the suspending agent is present in an amount of about 0.25% to about 6.0% by weight of the total tablet weight.
- 47. The water dispersible dosage form of claim 31 wherein the coloring agent is D&C Yellow Aluminum Lake.
- 48. The water dispersible dosage form of claim 31 wherein the anti-adherant is colloi dal silicon dioxide.

- 49. The water dispersible dosage form of claim 31 wherein the sweetening agent is selected from sugars, saccharin or its salts, aspartame or combinations thereof.
- 50. The water dispersible dosage form of claim 49 wherein sweetening agent is aspartame.
- 51. The water dispersible dosage form of claim 31 wherein sweetening agent is present in an amount of about 0.01% to about 2.0% by weight of total weight of tablet.
- 52. The water dispersible dosage form of claim 31 wherein the flavoring agent is Flavor Peppermint.
- 53. A method of treating an infection in a human caused by microorganisms susceptible to cephalexin comprising providing cephalexin in the form of the water dispersible tablet of claim 29.